

REMARKS

The above Amendments and these Remarks are in response to the Office Action of February 4, 2009. Claims 1- 8, and 10-21 were pending in the application prior to the outstanding Office Action. The present Response amends claims 1, 6, 8, 10, 17 and 19, and cancels claims 7, leaving for the Examiner's present consideration claims 1-6, 8, 10-21. Reconsideration of the rejections is requested.

I. Rejections Under 35 U.S.C. 101

In the Office Action, Claims 17-21 were rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Applicant respectfully submits that Claims 17-21 as amended satisfy the requirements of 35 U.S.C. 101, and reconsideration thereof is respectfully requested.

II. Rejections Under 35 U.S.C. 103(a)

In the Office Action, Claims 1-8 and 10-21 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Doolittle et al. (U.S. Patent No. 6,898,617, hereinafter Doolittle) in view of Parallel Execution: Oracle8i Concepts Release 8.1.5 (1999, hereinafter Oracle8i) and in further view of Motomura (U.S. Patent No. 5,815,727, hereinafter Motomura).

Claim 1

Claim 1 has been amended to define a feature that a plurality of resources can be applied in a transaction using a prepare phase with a plurality of prepare operations and a commit phase with a plurality of commit operations. A first server thread can dispatch a commit operation to a third thread and perform a second commit operation (the commit phase), after determining that the first prepare operation on a second server thread and the second prepare operation on itself (the prepare phase) are both completed.

Doolittle discloses how deadlock situations within a computing environment are avoided by properly managing pools of threads used to service requests of the computing environment. When a server of the computing environment receives a request to be processed and that request is waiting on a response from a client of the computing environment, the set of eligible thread pools for the response is dynamically altered. This dynamic altering allows the response to be serviced by a thread pool different from the thread pool servicing the request, thereby avoiding a deadlock situation. (Abstract).

Oracle 8i discloses that to execute a DML operation in parallel, the parallel execution

coordinator acquires or spawns parallel execution servers and each parallel execution server executes a portion of the work under its own parallel process transaction. Each parallel execution server creates a different parallel process transaction. (Page 36, lines 1-3).

Motomura discloses executing a program consisting of a plurality of threads in parallel, including a thread generating portion for managing three thread states of executing state, executable state and waiting state. A thread execution control portion controls execution of the threads so as to perform all of the synchronization operations in the program being performed only in the direction from the thread having the smaller virtual thread number to the thread having the greater virtual thread number. (Abstract).

Applicant respectfully submits that Doolittle and other cited arts do not teach, or render obvious, using different threads to implement the two-phase commit protocol as embodied in claim 1.

In view of the comments provided above, Applicant respectfully submits that the embodiment defined by Claim 1, as amended, is neither anticipated by, nor obvious in view of the cited references, and reconsideration thereof is respectfully requested.

Claim 6 and 17

The comments provided above with respect to Claim 1 are hereby incorporated by reference. Claim 6 and 17 have been similarly amended by the current Reply to more clearly define the embodiments therein. For similar reasons as provided above with respect to Claim 1, Applicant respectfully submits that Claims 6 and 17, as amended, are likewise neither anticipated by, nor obvious in view of the cited references, and reconsideration thereof is respectfully requested.

Claims 2-5, 8, 10, and 11-21

Claims 2-5, 8, 10, and 11-21 depend from and include all of the features of Claims 1, 6, or 17. Claims 2-5, 8, 10, and 11-21 are not addressed separately, but it is respectfully submitted that these claims are allowable as depending from an allowable independent claim, and further in view of the amendments to the independent claims, and the comments provided above. Reconsideration thereof is respectfully requested.

III. Conclusion

In light of the above, it is respectfully submitted that all of the claims now pending in the subject patent application should be allowable, and reconsideration thereof is respectfully requested. The Examiner is respectfully requested to telephone the undersigned if he can assist in any way in expediting issuance of a patent.

The Commissioner is authorized to charge any underpayment or credit any overpayment to Deposit Account No. 06-1325 for any matter in connection with this response, including any fee for extension of time, which may be required.

Respectfully submitted,

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By: /Kuiran (Ted) Liu/

Kuiran (Ted) Liu
Reg. No. 60039

Customer No. 80548
FLIESLER MEYER LLP
650 California Street, 14th Floor
San Francisco, California 94108
Telephone: (415) 362-3800